

Activity: **7.3**
Establish Programming Environment

Responsibility: Project Team

Description: Establishing the programming environment involves assembling and installing the hardware, software, telecommunications equipment, data bases, and other items required to support the programming effort. When the installation of the equipment or software is complete, conduct testing to verify the operating characteristics and functionality of the hardware and software. If required, security software and procedures should be activated when the installations are completed.

If the operational environment is also the programming environment, it may be necessary to alter the operational environment to accommodate an infrastructure of purchased hardware and software for use during programming and testing.

Before being integrated into, or used to support, the software product, vendor products should be tested to verify that the product satisfies the following objectives.

- The product performs as advertised/specified.
- The product's performance is acceptable and predictable in the target environment (e.g., testing for LAN certification).
- The product fully or partially satisfies the project requirements.
- The product is compatible with the project team's other hardware and software tools.

Time should be planned for the project team to become familiar with new products. Ensure that the project team members who will use the hardware or software obtain proper training. This may involve attendance at formal training sessions conducted by the vendor or the services of a consultant to provide in-house training.

This is a good time to review the programming standards that were established in the System Design Stage. Make any changes to the standards that are needed to accommodate the procured hardware and software.